

Multiplication Strategies

U.S. Algorithm - Multiplication

$$32 \times 17 =$$

$$\begin{array}{r}
 \\
 \\
 \\
 \hline
 X \\
 \hline
 2 \\
 + \\
 \hline
 5
 \end{array}$$

1. Multiply 7 x 2
2. Multiply 7 x 3
3. Add the 1
4. Put a 0 under the 4
5. Multiply 1 x 2
6. Multiply 1 x 3
7. Add the numbers

Box Method

$$32 \times 17 =$$

30	2	
300	20	10
210	14	7

1. Multiply 30 x 10
2. Multiply 2 x 10
3. Multiply 30 x 7
4. Multiply 2 x 7
5. Add the numbers

$$510 + 34 = 544$$

Multiplication Strategies

Partial Products

$$32 \times 17 =$$

$$\begin{array}{r} 32 \times 10 = 320 \\ + 32 \times 7 = 224 \\ \hline 32 \times 17 = 544 \end{array}$$

1. Break apart 17 into 10 and 7
2. Multiply 32×10
3. Multiply 32×7
4. Add the products together

(OR)

$$\begin{array}{r} 30 \times 17 = 510 \\ + 2 \times 17 = 34 \\ \hline 32 \times 17 = 544 \end{array}$$

1. Break apart 32 into 30 and 2
2. Multiply 30×17
3. Multiply 2×17
4. Add the products together

****There are many possible number variations in this strategy.****